

**EXPRESS MAIL CERTIFICATE**

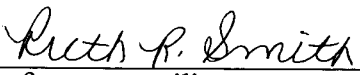
DOCKET NO. : 20959/1661 (P 58792)  
APPLICANT(S) : Norbert Moszner, Thomas Völkel, Volker Rheinberger, and  
Ulrich Schubert  
TITLE : DENTAL MATERIALS BASED ON METAL OXIDE  
CLUSTERS

Certificate is attached to the **Information Disclosure Statement, PTO-1449  
Form (2 pages) (in duplicate) and 19 references** of the above-named application.

“EXPRESS MAIL” NUMBER: EL801320970US  
DATE OF DEPOSIT: January 18, 2002

I hereby certify that this paper or fee is being deposited with the United States Postal Service “Express Mail Post Office to Addressee” service under 37 CFR 1.10 on the date indicated above and is addressed to the U. S. Patent and Trademark Office, Box 2327, Arlington, Virginia 22202, **Box: Patent Application.**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Norbert Moszner, Thomas Völkel, )  
Volker Rheinberger, and Ulrich Schubert )  
Serial No. : To Be Assigned )  
Cnfrm. No. : To Be Assigned )  
Filed : Herewith )  
For : DENTAL MATERIALS BASED ON METAL )  
OXIDE CLUSTERS )

Examiner:  
To Be Assigned  
Art Unit:  
To Be Assigned



INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97-1.98

U. S. Patent and Trademark Office  
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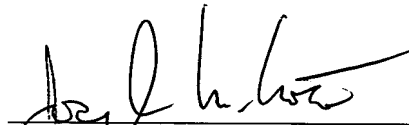
Dear Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, applicants hereby bring to the attention of the United States Patent and Trademark Office, pursuant to 37 C.F.R. §§ 1.97-1.98, the enclosed documents listed on the attached PTO-1449 form.

It is respectfully requested than an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

Date: January 18, 2002

  
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use several sheets if necessary)  (PTO-1449 )	ATTY. DOCKET NO.  20959/1661 (P 58792)	SERIAL NO.  To Be Assigned
	APPLICANT  Moszner et al.	
	FILING DATE  Herewith	GROUP ART UNIT  To Be Assigned

10/053460  
 01/16700

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	1	5,508,342	04/16/1996	Antonucci et al.			
	2	6,096,903	08/01/2000	Moszner et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
	3	WO 92/11837	07/23/1992	WIPO			
	4	WO 96/13538	05/09/1996	WIPO			
	5	WO 98/46197	10/22/1998	WIPO			
	6	WO 98/47047	10/22/1998	WIPO			
	7	DE 198 46 660 A1	10/09/1998	Germany			abstract
	8	DE 196 34 189 A1	08/23/1996	Germany			abstract
	9	DE 41 33 494 C2	10/09/1991	Germany			abstract

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		10	Schubert et al., "Primary Hydrolysis Products of Methacrylate-Modified Titanium and Zirconium Alkoxides," <u>Chem. Mater.</u> , 4:291-295 (1992)
		11	Kiekelbick et al., "Oxozirconium Methacrylate Clusters: $Zr_6(OH)_4O_4(OMc)_{12}$ and $Zr_4O_2(OMc)_{12}(OMc = \text{Methacrylate})$ ," <u>Chem. Ber./Recueil</u> , 130:473-477 (1997)
		12	Rawls et al., "Radiopaque Acrylic Resins Containing Miscible Heavy-Metal Compounds," <u>Dent. Mater.</u> , 6(4):250-255 (1990) (abstract only)
		13	Skrtic et al., "Physicochemical Evaluation of Bioactive Polymeric Composites Based on Hybrid Amorphous Calcium Phosphates," <u>J. Biomed. Mater. Res.</u> , 53(4):381-391 (2000) (abstract only)
		14	Loebenstein, "Coupling Agents for Improved Bonding of ***Dental*** Composites," <u>J. Dent. Res.</u> , 57(3):480 (1978) (abstract only)
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE
	15	44 16 857 C1	05/13/1994	Germany			abstract
	16	EP 1 022 012 A2	07/26/2000	Europe			abstract
	17	DE 31 37 840 C2	09/23/1981	Germany			abstract
	18	JP 03177470 A2	08/01/1991	Japan			abstract

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		19	Yoshida et al., "Effects of Coupling Agents on Mechanical Properties of Metal Oxide -Polymethacrylate Composites," <u>J. Dent.</u> , 22(1):57-62 (1994) (abstract only)
EXAMINER			DATE CONSIDERED
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